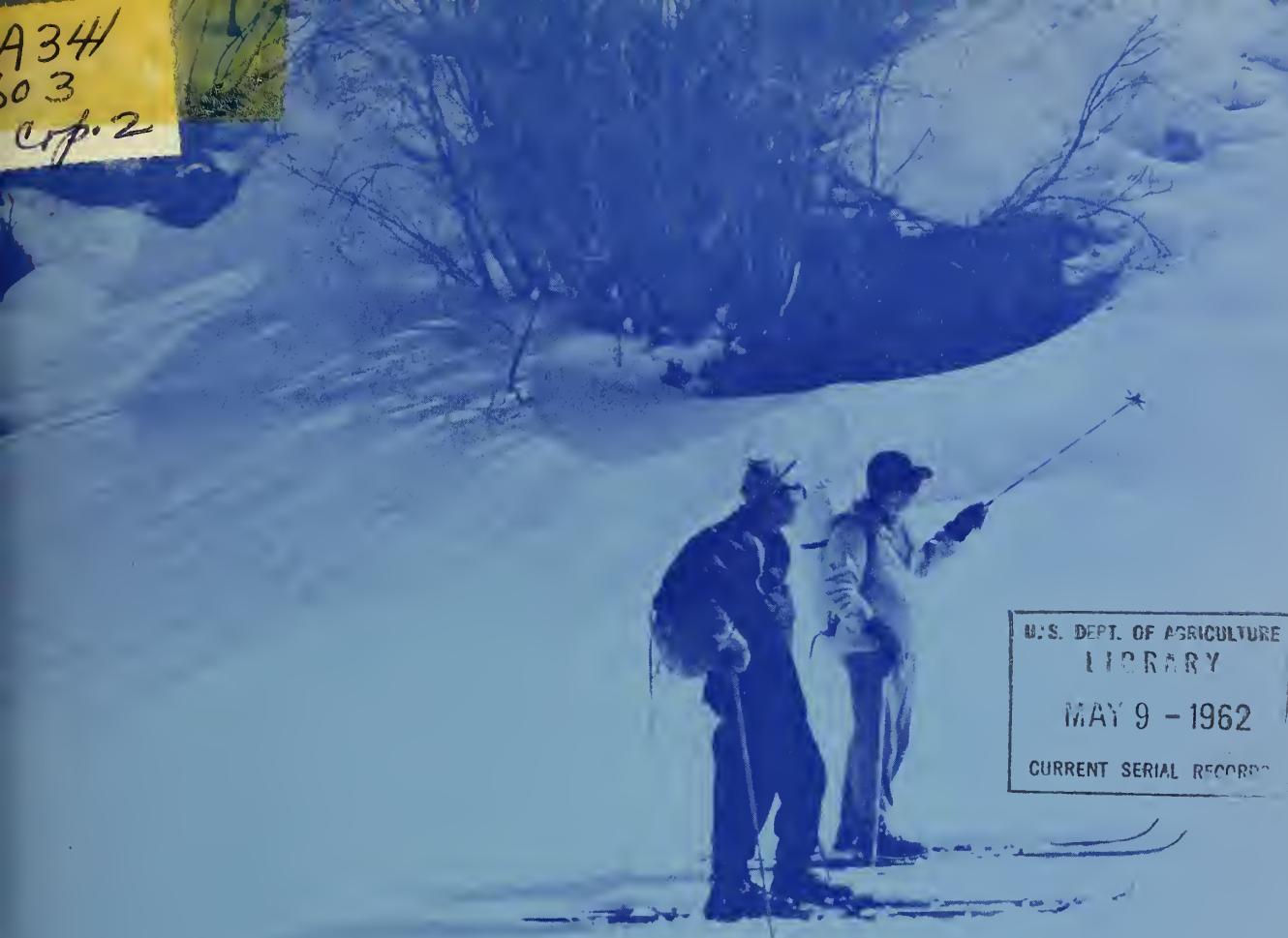


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U.S. DEPT. OF AGRICULTURE  
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FEDERAL - STATE - PRIVATE  
COOPERATIVE  
**SNOW SURVEY and WATER SUPPLY FORECASTS  
for  
WYOMING**

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE  
and  
STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies  
named above in cooperation with the Bureau of Reclamation,  
U.S. Forest Service, National Park Service, and other Federal,  
State and private organizations.

AS OF  
APR. 1, 1961

# UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

## To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

### PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
<b>RIVER BASINS</b>			
COLORADO AND STATE OF UTAH			
	MONTHLY (JAN.-MAY)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA	MONTHLY (JAN.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE OF MONTANA	MONTHLY (FEB.-MAY)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WILOE	OCT. 1, APR. 1, MAY 1	PORTLAND, OREGON	ALL COOPERATORS
<b>STATES</b>			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (FEB.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
NEVADA	MONTHLY (FEB.-APR.)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-MAY)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-MAY)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB., JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

Copies of these various reports may be secured from: Head, Water Supply Forecasting Section  
Soil Conservation Service,  
209 S. W. Fifth Ave., Portland 4, Oregon

### PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS AND FORESTS, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, SACRAMENTO, CALIF.

FEDERAL-STATE COOPERATIVE  
SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued  
April 1, 1961

Report Prepared  
by  
George W. Peak  
Snow Survey Supervisor  
State of Wyoming

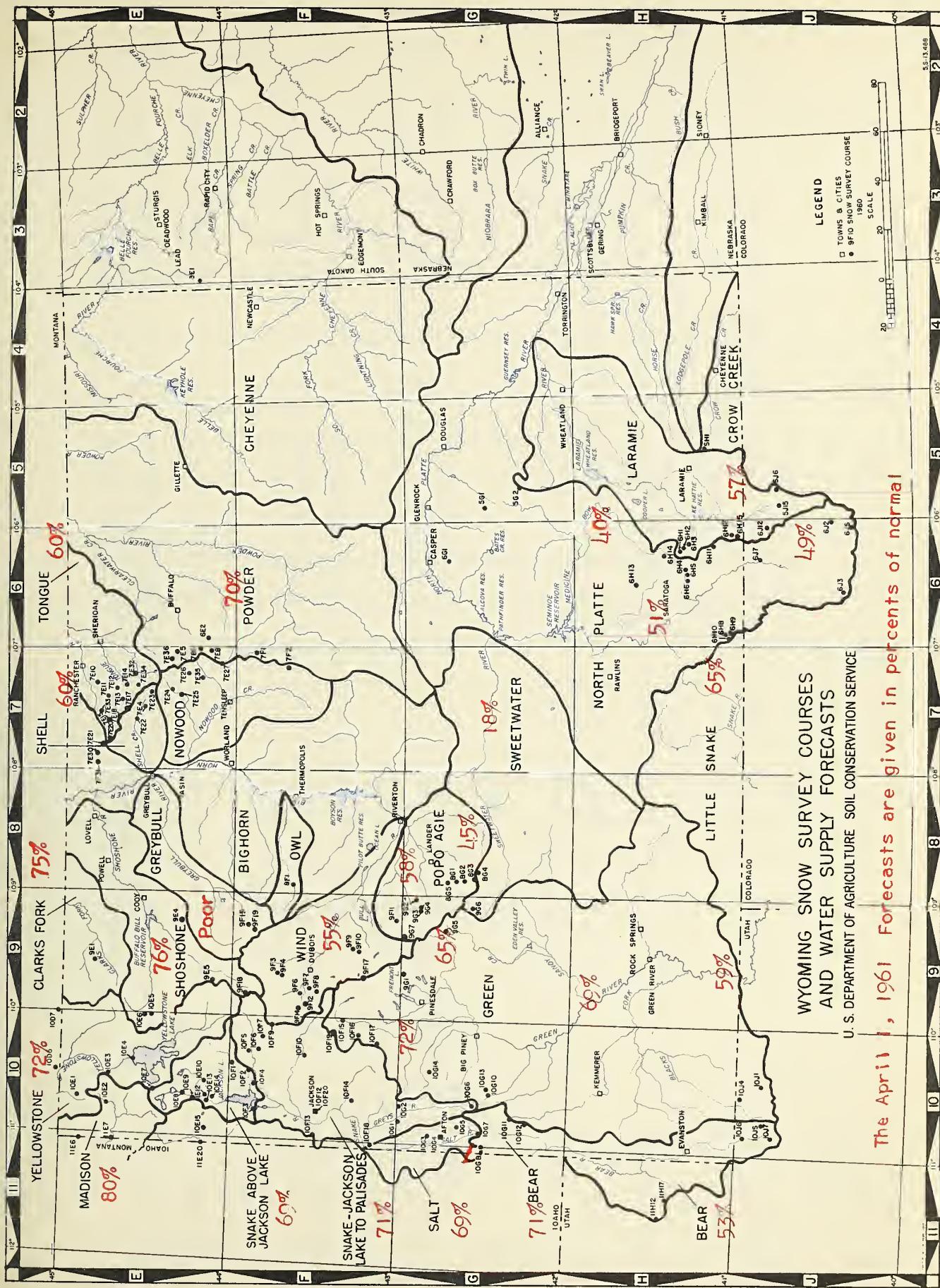
Soil Conservation Service  
345 East 2nd Street  
P. O. Box 699  
Casper, Wyoming

Issued by

B. H. Hopkins  
State Conservationist  
Soil Conservation Service

Earl Lloyd  
State Engineer of Wyoming  
Cheyenne, Wyoming





The April 1, 1961 Forecasts are given in percents of normal

**INDEX TO WYOMING SNOW COURSES**

LOCATION														LOCATION				
ORAINAGE BASIN	WYOMING	NUMBER	ELEV.	SEC.	LAT.	TWP.	RANGE	RECORD	MEAS.	MEAS.	RECORD	MEAS.	MEAS.	RECORD	MEAS.	MEAS.		
ANO COURSE NAME								BEGAN	DATES a	BY b								
MISSOURI RIVER ORAINAGE														MISSOURI RIVER ORAINAGE				
HAISON RIVER														CROW CREEK				
Norris Basin	10E2	7500	44°44'			110°42'		1936	2,3,4,5	2	Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5
21 Mile -m	11E6	7150	1	11S	56			1934	1,2,3,4,5	6								
West Yellowstone -m	11E7	6700	34		13S	56		1934	1,2,3,4,5	6	Albany	6H11	9400	18	14N	76W	1949	2,3,4,5
YELLOWSTONE											Bottle Creek	6H8	8200	24	14N	65W	1936	2,3,4,5
Canyon	10E3	7750	44°44'			110°30'		1938	1,2,3,4,5	1	Boxelder	5G1	9000	31	30N	75W	1936	2,3,4,5
Cooke City -m	1007	7400	25	9S	14E			1937	1,2,3,4,5	2	Casper Mountain	6G1	7000	16	32N	79W	1954	1,2,3,4,5
Crevice Mountain -m	1005	8400	22	9S	9E			1935	3,4	4	Columbine -c	6J3	9300	21	5N	82W	1936	2,3,4,5
East Entrance	10E6	7000	17		52N	109W		1947	1,2,3,4,5	2	Elk Mountain	6H13	10000	8	19N	81W		2,3,4
Lake Camp	10E4	7650	44°34'			110°24'		1937	1,2,3,4,5	1	Fox Park	6H12	9200	21	13N	76W	1936	2,3,4,5
Lupine Creek	10E1	7300	44°54'			110°37'		1938	1,2,3,4,5	2	LaBonte	5G2	8450	11	27N	74W	1949	2,3,4,5
Thumb Divide	10E7	7900	44°22'			110°35'		1946	2,3,4	5	North Barrett Creek #2	6H5	9400	30	16N	80W	1936	2,3,4,5
Sylvan Pass	10E5	7100	12		52N	110W		1936	1,2,3,4,5	2	North French Creek #1	6H4	10200	27	16N	80W	1932	2,3,4,5
CLARK'S FORK											Northgate -c	6J7	8500	7	11N	79W	1950	2,3,4,5
Lodgepole	9E1	8200	32		56N	106W		1940	2,3,4,5	1,4	Old Battle	6H10	9200	29	14N	85W	1936	2,3,4,5
WIND RIVER											Park View -c	6J2	9200	24	5N	76W	1956	2,3,4,5
Big Warm	9F12	8800	36		42N	109W		1955	2,3,4,5	1	Rock Creek	6H14	9800	5	17N	79W	1960	2,3,4
Burroughs Creek	9F4	8800	15		43N	107W		1948	2,3,4,5	1	Ryan Park #2	6H6	8400	34	16N	81W	1956	2,3,4,5
Dinwoodie	9F10	10000	9	38N	105W			1948	2,3,4,5	1,3	Webber Spring	6H9	9000	27	14N	85W	1936	2,3,4,5
Oinwoodie Glaciers	9F17	10500	43°14'			109°35'		1950	2,3,4	1	Willow Creek Pass -c	6J5	9500	1	4N	76W	1938	2,3,4,5
Dry Creek	9F9	9500	34		4N	105W		1948	2,3,4,5	1,3	CHEYENNE RIVER							
Duhoir	9F6	8750	27		42N	108W		1940	2,3,4,5	1	Upper Spearfish -s	3E1	6500	21	3N	1E	1944	2,3,4
Geyser Creek	9F7	8500	12		41N	108W		1948	2,3,4,5	1	GREEN RIVER & POPO AGIE RIVER							
Little Warm	9F8	9500	24		41N	108W		1948	2,3,4,5	1	Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4
Sheridan R.S. #2	9F14	7500	3		42N	109W		1955	2,3,4,5	1	GREEN RIVER & WIND RIVER							
T-Cross Ranch	9F3	8000	1		43N	107W		1940	2,3,4,5	1	Dinwoodie Glaciers	9F17	10500	43°14'		109°35'	1959	2,3,4
Togwotee Pass	10F9	9500	29		44N	110W		1936	2,3,4,5	5	COLORADO RIVER ORAINAGE							
POPO AGIE RIVER											GREEN RIVER							
Blue Ridge	8G2	9500	23		31N	101W		1939	2,3,4,5	1	Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5
Bruce's Camp	8G5	6500	24		32N	101W		1955	2,3,4	1	Blind Bull	10G2	8750	6	34N	115W	1949	2,3,4
Hobbs Park	8G3	10000	22	2S	3W			1948	2,3,4,5	1,3	Otch Joe R.S.	9G5	8700	32	31N	104W	1936	2,3,4,5
Mosquito Park R.S.	8G4	9500	23		2S	3W		1940	2,3,4,5	1,3	East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5
Sawmill Glade	8G1	2500	3		31N	101W		1939	2,3,4,5	1	Gas Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5
South Pass	8G3	9000	13		30N	101W		1939	2,3,4,5	1	Hewinta R.S. -u	10J4	9500	33	3N	13E	1930	4
St. Lawrence R.S.	9F11	9000	26		1N	4W		1940	2,3,4,5	1,3	Hole-in-the-Rock -u	10J1	9150	13	2N	15E	1931	4
Trout Creek	9G2	8400	5		2S	2W		1948	2,3,4,5	1,3	Kelly R.S.	10G12	8200	13	26N	116W	1951	2,3,4,5
Twenty Lakes	9G7	10500	2		1S	5W		1959	2,3,4	1	Kendall R.S.	10F15	7900	23	36N	110W	1936	2,3,4,5
OWL CREEK											Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5
Owl Creek	8F1	8700	36		43N	101W		1948	2,3,4,5	1	Mulligan Park	9G1	8900	17	35N	108W	1936	2,3,4,5
GREYBULL RIVER											Old Battle	6H10	9600	29	14N	85W	1936	2,3,4,5
Kirwin	9F19	11000	13		45N	104W		1960	2,3,4	1	Piney-LaBarge	10G10	8820	19	29N	114W	1937	2,3,4,5
Wood River #2	9F15	8000	28		46N	103W		1956	2,3,4,5	1	Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5
SHOSHONE RIVER											Snyder Basin R.S. #2	10G13	8040	15	29N	114W	1956	2,3,4,5
Carter Mountain	9E4	7800	15		50N	103W		1957	1,2,3,4	1	Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5
East Entrance	10E6	7000	17		52N	109W		1948	1,2,3,4,5	2	CHEYENNE RIVER & POPO AGIE RIVER							
Ishawoo Cone	9E5	9200	44°13'			109°47'		1960	2,3,4	1	Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4
Sylvan Pass	10E5	7100	12		52N	110W		1936	1,2,3,4,5	2	GREEN RIVER & WIND RIVER							
Younts Peak	9F18	8500	43°56'			109°49'		1950	2,3,4	1	Oinwoodie Glaciers	9F17	10500	43°14'		109°35'	1959	2,3,4
HOWOOD CREEK											COLUMBIA RIVER DRAINAGE							
Cold Springs Camp	7E25	8700	1		50N	88W		1956	2,3,4,5	1	SHAKE RIVER BASIN (Above Jackson Lake)							
Medicine Lodge Lakes	7E24	9500	7		51N	87W		1956	2,3,4,5	1	Arizona	10F1	6850	3	46N	113W	1919	2,3,4
Munkers Pass	7E8	9700	11		48N	85W		1950	2,3,4,5	1	Aster Creek	10E8	7700	44°17'		110°37'	1919	2,3,4
Onion Gulch	7E27	8100	31		48N	85W		1956	2,3,4,5	1	Base Camp	10F2	6900	20	46N	113W	1947	2,3,4
Tensleep Lake	7E26	9075	33		50N	86W		1956	2,3,4,5	1	Coulter Creek	10E10	7600	44°09'		110°33'	1919	2,3,4
Tyrell R.S.	7E35	8300	30		49N	86W		1956	2,3,4,5	1	Glade Creek	10E13	7200	44°08'		110°44'	1919	2,3,4
SHELL CREEK											Grassy Lake	10E15	7625	6	48N	117W	1940	2,3,4,5
Bald Mountain	7E21	9600	33		56N	91W		1956	2,3,4,5	1	Huckleberry Divide	10E14	7300	32	48N	115W	1919	2,3,4,5
Beaver-Tongue Divide	7E20	9200	12		55N	91W		1956	2,3,4,5	1	Lewis Lake Divide	10E9	7900	44°13'		110°40'	1919	2,3,4,5
Big Goose #2	7E32	7700	4		53N	86W		1955	2,3,4,5	1	Moran	10F4	6800	8,17	45N	114W	1919	2,3,4
Bone-Spring Divide	7E18	9200	32		55N	89W		1956	2,3,4,5	1	Moran Bay	10F3	6800	14	45N	116W	1919	2,3,4
Granite Creek Camp	7E22	7800	15		53N	89W		1956	2,3,4,5	1	Snake River Station	10E12	6780	44°08'		110°40'	1919	2,3,4
Granite Pass	7E17	8950	19		54N	89W		1956	2,3,4,5	1	Thumb Divide	10E7	7900	44°22'		110°35'	1951	2,3,4,5
Ranger Creek	7E4	8800	32		53N	88W		1955	2,3,4,5	1	JACKSON LAKE TO PALISADES							
Shell Creek	7E23	9800	12		52N	87W		1956	2,3,4,5	1	Afton R.S.	10G4	6200	30	32N	118W	1936	1,2,3,4,5
PORCUPINE CREEK											Blackrock	10F7	8600	4	44N	111W	1936	2,3,4
Five Springs Falls	7E31	7500	19		56N	92W		1956	2,3,4,5	1	Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4
Medicine Wheel	7E30	9000	24		56N	92W		1956	2,3,4,5	1	Bryan Flat	10F14	6250	9	38N	115W	1936	1,2,3,4,5
TONGUE RIVER											CCC Camp	10G7	7500	9	29N	118W	1936	1,2,3,4,5
Beaver-Tongue Divide	7E20	9200	12		55N	91W		1956	2,3,4,5	1	Cottonwood Lake	10G5	7500	25	31N	116W	1936	2,3,4
Big Goose #2	7E32	7700	4		53N	86W		1955	2,3,4,5	1	Deadman Ranch	10G1	6534	28	35N	116W	1936	2,3,4
Bone-Spring Divide	7E18	9200	32		55N	89W		1956	2,3,4,5	1	East Rim Divide	10F17	7500	32	37N	111W	1936	1,2,3,4,5
Granite Pass	7E17	8800	19		54N	89W		1956	2,3,4,5	1	Four Mile Meadows	10F6	7700	35	45N	112W	1936	2,3,4,5
North Tongue	7E15	8800	17		55N	89W		1956	2,3,4,5	1	Greys Boundary	10F18	5800	33	37N	116W	1936	1,2,3,4,5
Sibley Lake	7E11	8000	10		55N	88W		1956	2,3,4,5	1	Gros Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5
Sucker Creek	7E12	9000	19		55N	87W		1956	2,3,4,5	1	Grover Park Divide	10G3	7500	27	33N	116W	1936	1,2,3,4,5
Steamboat Point	7E10	7500	32		56N	87W												

WATER SUPPLY OUTLOOK  
FOR  
WYOMING

April 1, 1961



# WATER CONSERVATION PRINCIPLES

Study the local snow surveys and stream flow forecasts. Prepare an irrigation and cropping plan in keeping with the seasonal water supply outlook.

Reduce losses in the system by keeping ditches clean and structures in good repair.

Keep irrigation streams constant as possible by working with your neighbors.

Irrigate with larger heads to reduce losses.

Apply only enough water to fill the root zone of the crop being irrigated.

Determine irrigation needs and depth penetration with shovel or soil auger.

Consider early maturing crops that require low water demands.

Perennial hay crops should be allotted a reasonable amount of water early in the season to produce a good first cutting.

New plantings of perennial crops, including pasture, should be delayed until a more favorable water season.

Priority in the use of water should be assigned to the best land, considering those lands which are most efficiently irrigated.

In line with the available water supply, the decision must be made by the farmer as to the proportion of acreage he will place in high water using and more profitable crops and the acreage that he will balance off with low water using crops, or fallow.

Remember past years! The incidence and intensity of summer precipitation will seldom overcome inadequate water supplies.

## CONTACT YOUR WORK UNIT CONSERVATIONIST

B. H. Hopkins  
State Conservationist  
Soil Conservation Service

Earl Lloyd  
State Engineer of Wyoming  
Cheyenne, Wyoming



## WYOMING STREAM-FLOW FORECASTS APRIL 1, 1961

BASIN AND TRIBUTARY	April 1 - September 30			
	Seasonal Forecast Runoff	Stream-Flow in Thousands of Acre Feet		15-Year Average 1943-57
		Percent 15-Year Average	Measured Runoff 1959	
MADISON RIVER				
West Yellowstone (at)	174	80%	192	216
YELLOWSTONE RIVER				
Corwin (at)	1421	72%	1785	1980
NORTH POPO AGIE				
Milford (near)	50	58%	55	86*
LITTLE POPO AGIE				
Lander (near)	22	45%	25	49*
WIND RIVER				
Dubois (at)	60	55%	88	110**
SHOSHONE RIVER				
Buffalo Bill Dam(below)(1)	650	76%	765	851
CLARK'S FORK				
Chance (at)	461	75%	648	617
LARAMIE RIVER				
Jelm (at)(2)	65	57%	84	113
ENCAMPMENT RIVER				
Encampment (near)	97	62%	92	156
NORTH PLATTE RIVER				
Northgate (at)	125	49%	190	255
Saratoga (at)	340	51%	444	661
MEDICINE BOW RIVER				
Hanna (near)	40	40%	50	99
SWEETWATER RIVER				
Alcova (near)	15	18%	17	84
NORTH PINEY CREEK				
Mason (near)	29	71%	32	41
HENRY'S FORK				
Linwood (at)	22	55%	27	40



WYOMING STREAM-FLOW FORECASTS APRIL 1, 1961

BASIN AND TRIBUTARY	April 1 - September 30			
	Seasonal Stream-Flow in Thousands of Acre Feet		Measured Runoff 1959	15-Year Average 1943-57
	Percent Forecast Runoff	15-Year Average		
NEW FORK CREEK				
Boulder (near)	170	65%	201	260
GREEN RIVER				
Fontenelle (at)	685	69%	704	995
Green River (near)	710	59%	734	1200
Warren Bridge (at)	250	72%	310	348
SNAKE RIVER				
Moran (at) (3)	644	69%	680	928
Above reservoir Alpine (near)	2244	71%	2217	3161
PACIFIC CREEK				
Moran (near)	138	75%	160	185*
BUFFALO FORK				
Moran (near)	245	73%	372	337*
SALT RIVER				
Etna above reservoir (near)	250	69%	255	360
BEAR RIVER				
Utah-Wyo. State Line (near)	65	53%	100	123*
Harer (at)	130	43%	124	299
Randolph (near)	12	10%		
SMITHS FORK				
Border (near)	84	71%	80	119

All stream data taken from observed flow records with the following exceptions.

(1) Observed flow corrected for storage in Buffalo Bill Reservoir and Heart Mountain diversion.

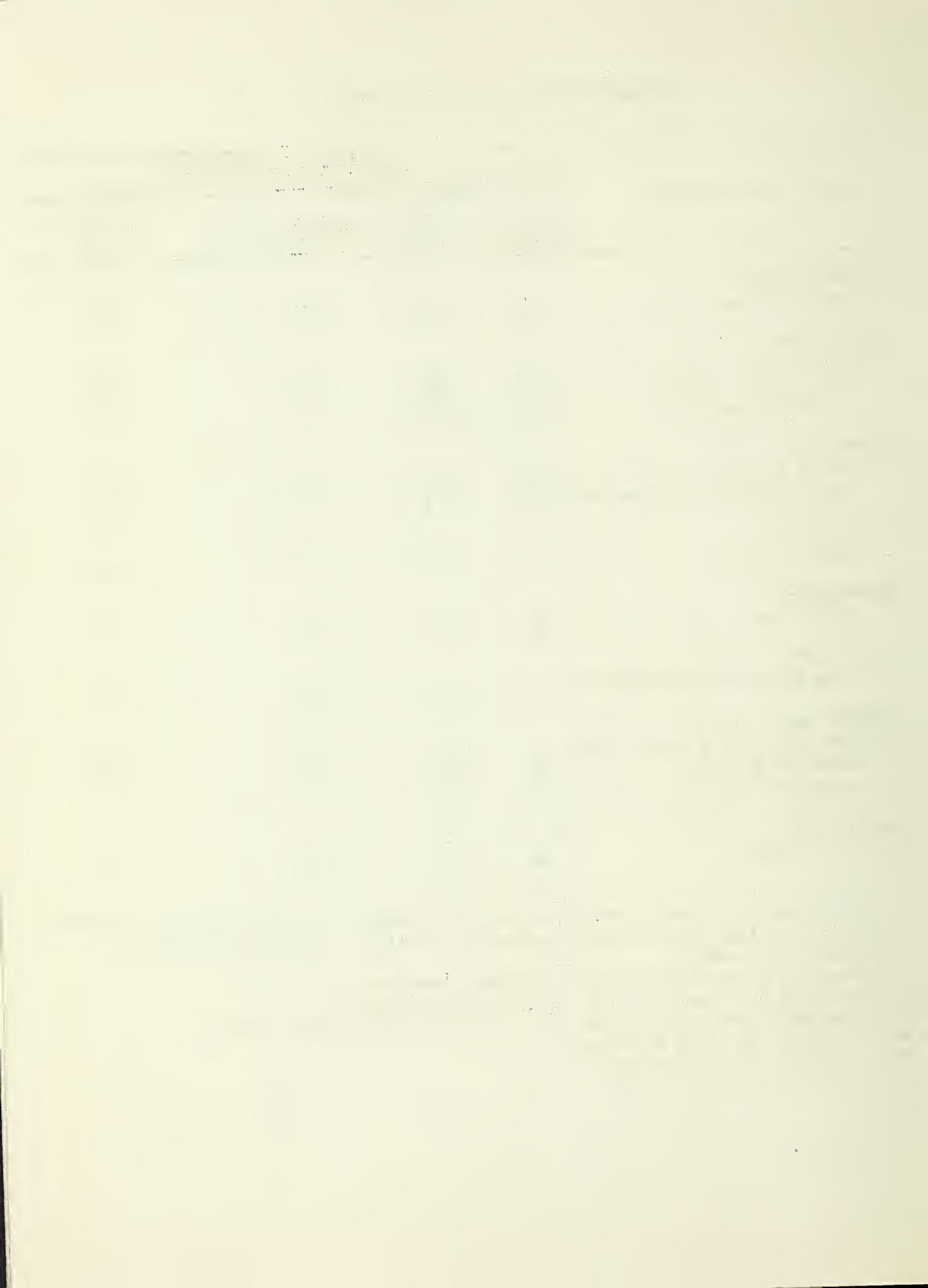
(2) Observed flow corrected for Colorado diversion above station.

(3) Observed flow corrected for Jackson Lake storage.

(4) Observed flow corrected for Jackson Lake and Palisades storage.

\* Less than 15 years of record.

\*\* Estimated 1943-57 average.



WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1961

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			1961			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1960	1959	Prior 1943-57 Yrs. of Average Record
<u>MADISON RIVER - YELLOWSTONE PARK</u>									
Norris Basin $\div$	10E2	7500	3/31	31	8.7	6.6	8.5	9.9*	21
21 Mile <sup>m</sup>	11E6	7150	3/30	46	14.8	8.8	15.8	19.2	24
West Yellowstone <sup>m</sup>	11E7	6700	3/30	30	9.3	5.4	9.2	12.7	24
<u>UPPER YELLOWSTONE - YELLOWSTONE PARK</u>									
Canyon	10E3	7750	4/1	45	13.3	8.7	15.3	16.0	22
Cooke City <sup>m</sup>	10D7	7400	3/31	22	7.4	5.5	9.4	9.5	24
Crevice Mtn. <sup>m</sup>	10D5	8400	3/31	21	5.6	3.9	8.5	10.5	26
East Entrance $\div$	10E6	7000	4/2	27	6.8	4.6	11.2	11.9**	12
Lake Camp #1	10E4	7850	3/31	34	8.6	5.6	9.6	11.7*	22
Lake Camp #2	10E4	7850	3/31	30	7.9	4.8	8.5	4	
Lupine Creek	10E1	7300	3/31	29	8.9	6.7	9.4	11.6*	21
Norris Basin $\div$	10E2	7500	3/31	31	8.7	6.6	8.5	9.9*	21
Sylvan Pass $\div$	10E5	7100	4/1	40	11.2	8.3	15.9	15.9*	22
Thumb Divide $\div$	10E7	7900	3/28	58	16.1	11.8	19.8	25.8e	10
<u>LOWER YELLOWSTONE - CLARK'S FORK</u>									
Lodgepole	9E1	8200	4/1	28	7.4	6.3	11.8	11.7*	22
<u>LOWER YELLOWSTONE - WIND RIVER</u>									
Big Warm	9F12	8800	3/27	27	5.8	7.1	8.9	9.1**	6
Burroughs Creek	9F4	8800	3/29	35	8.8	7.8	14.4	15.0**	12
Dinwoodie	9F10	10000	3/30	14	8.6	9.2	11.6	13.3**	11
Dinwoodie Glaciers $\div$	9F17	10500		LATE REPORT	8.0E	11.5E			2
Dry Creek	9F9	9500	3/30	28	5.5	4.3	6.9	7.0**	11
DuNoir	9F6	8750	3/27	20	3.4	4.9	7.4	10.1	20
Geyser Creek	9F7	8500	3/28	20	4.0	3.9	6.7	8.4**	12
Little Warm	9F8	9500	3/28	50	12.5	13.7	16.7	18.4**	12
Sheridan R.S. #2	9F14	7500	3/27	16	3.9	5.0	6.4	6.9**	6
T-Cross Ranch	9F3	8000	3/29	17	4.0	2.9	6.3	8.1	20
Togwotee Pass $\div$	10F9	9600	3/29	71	24.0	24.6	32.2	32.1	25
Twenty Lakes $\div$	9G7	10000		LATE REPORT	7.5E	6.5E			2
<u>LOWER YELLOWSTONE - OWL CREEK</u>									
Kirwin $\div$	9F19	11000	3/30	28	5.5	8.0E			1
Owl Creek	8F1	8700	3/27	32	7.6	7.8	5.8	6.1**	11



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Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			1961			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1943-57	1960	1959
<b>LOWER YELLOWSTONE - POPO AGIE RIVER</b>									
Blue Ridge	8G2	9500	3/24	35	7.9	6.9	9.8	13.8	21
Bruce's Camp	8G5	6500	3/23	14	4.4	4.3	N.R.		3
Grannier Meadows $\div$	8G4	9000	3/24	37	8.4	11.1	10.0	16.1	24
Hobbs Park	9G3	10000	4/1	56	15.1	12.9	15.8	18.9**	12
Mosquito Park R.S.	9G4	9500	4/1	32	6.8	5.7	7.0	8.8*	16
Sawmill Glade	8G1	8500	3/24	32	7.1	5.9	9.1	8.6	21
South Pass $\div$	8G3	9000	3/24	40	8.7	10.2	11.6	16.4	21
St. Lawrence R.S.	9F11	9000	3/27	23	5.6	3.3	6.3	7.6*	17
Trout Creek	9G2	8400	4/1	29	7.6	3.2	7.9	6.3**	12
Twenty Lakes $\div$	9G7	10500			LATE REPORT	7.5E	6.5E		2
<b>LOWER YELLOWSTONE - GREYBULL RIVER</b>									
Frontier Needle	9E6	10000	3/30	29	5.5				0
Kirwin $\div$	9F19	11000	3/30	28	5.5	8.0E			1
Timber Creek #2	9F3	8800	3/29	20	3.6	4.7	3.6	3.6**	6
Wood River #2	9F15	8000	3/28	29	6.5	6.3	5.6	5.3**	6
<b>LOWER YELLOWSTONE - SHOSHONE RIVER</b>									
Carter Mountain	9E4	7800	3/30	22	5.3	5.2	4.8		4
East Entrance $\div$	10E6	7000	4/2	27	6.8	4.6	11.2	11.9**	12
Ishawooa Cone	9E5	9200			ABANDONED				
Sylvan Pass $\div$	10E5	7100	4/1	40	11.2	8.3	15.9	15.9*	22
Togwotee Pass $\div$	10F9	9600	3/29	71	24.0	24.6	32.2	32.1	25
Younts Peak	9F18	8500	3/30	44	10.9	12.0E			2
<b>LOWER YELLOWSTONE - NOWOOD CREEK</b>									
Bear Trap $\div$	7F1	8000	3/24	32	8.8	6.2			1
Canyon Creek $\div$	7F2	7400	3/23	44	12.3	10.0			1
Cold Springs Camp	7E25	8700	3/31	26	6.5	5.8	10.2	7.5**	5
Medicine Lodge Lakes	7E24	9500	3/31	38	10.4	9.7	13.2	11.5**	5
Munkres Pass $\div$	7E8	9700	3/31	29	7.5	8.3	10.4	9.2**	11
Onion Gulch $\div$	7E27	8100	3/24	29	7.2	8.3	10.3	9.0**	5
Tensleep R.S.	7E7	8300	4/2	25	7.3	7.1	10.2	7.3	24
Tyrell R.S.	7E35	8300	4/2	30	8.1	6.5	10.8	7.9**	5
West Tensleep Lake	7E26	9075	4/2	39	9.9	9.9	13.9	11.3**	5



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Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			1961			PAST RECORD			
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1960	1959	1943-57 Yrs. of Average
<u>LOWER YELLOWSTONE - SHELL CREEK</u>									
Bald Mountain	7E21	9600	3/24	61	18.8	20.7	26.5	20.0**	5
Beaver Tongue $\div$	7E20	9200	3/24	55	16.8	18.4	25.8	19.4**	5
Bone Spring $\div$	7E18	9200	3/27	55	13.4	16.1	21.0	17.2**	5
Granite Creek Camp	7E22	7800	4/1		Trace	0.0	5.8	3.4**	5
Granite Pass $\div$	7E17	8950	3/27	49	12.2	15.3	21.1	16.4**	5
Ranger Creek	7E4	8800	4/1	30	7.8	6.9	11.9	9.0*	23
Shell Creek	7E23	9600	4/1	49	11.8	13.7	16.6	14.8**	5
<u>LOWER YELLOWSTONE - PORCUPINE CREEK</u>									
Five Springs Falls	7E31	7500	3/30	19	5.4	5.4	6.5	5.7**	5
Medicine Wheel	7E30	9000	3/25	49	14.3	16.1	23.8	16.0**	5
<u>LOWER YELLOWSTONE - TONGUE RIVER</u>									
Beaver Tongue $\div$	7E20	9200	3/24	55	16.8	18.4	25.8	19.4**	5
Big Goose #2	7E32	7700	3/29	29	7.6	6.3	10.4	7.6**	5
Bone Spring $\div$	7E18	9200	3/27	55	13.4	16.1	21.0	17.2**	5
Burgess R.S. #2	7E33	7900	3/25	27	6.4	7.9	11.4	7.8**	5
Dome Lake #2	7E34	8800	3/29	38	9.1	9.7	11.6	10.3**	5
Geneva Pass	7E37	10600	3/29	50	12.0E				0
Gloom Creek	7E14	9300	3/26	48	12.2	14.8	17.0	13.3**	5
Granite Pass $\div$	7E17	8950	3/27	49	12.2	15.3	21.1	16.4**	5
North Tongue	7E15	8800	3/25	36	9.4	9.8			1
Sibley Lake	7E11	8000	3/28	39	9.3	9.0	14.6	9.8**	5
Steamboat Point	7E10	7500	3/28	29	7.3	7.6	12.4	7.7**	5
Sucker Creek	7E12	9000	3/26	41	11.2	12.4	16.2	12.1**	5
Wood Rock G.S.	7E13	8500	3/26	38	8.5	10.6	14.0	10.8**	5
<u>LOWER YELLOWSTONE - POWDER RIVER</u>									
Bear Trap $\div$	7F1	8000	3/24	32	8.8	6.2			1
Canyon Creek $\div$	7F2	7400	3/23	44	12.3	10.0			1
Clouds Peak	7E36	10000	3/29	48	12.0E	17.0E			1
Muddy Creek G.S. $\div$	7E28	7500	3/31	19	4.4	2.4	4.8	4.1**	5
Munkres Pass $\div$	7E8	9700	3/31	29	7.5	8.3	10.4	9.2**	11
Onion Gulch $\div$	7E27	8100	3/24	29	7.2	8.3	10.3	9.0**	5
Soldier Park	7E5	8700	4/1	24	5.4	5.6	8.7	5.4**	11
Sour Dough	7E6	8500	3/30	28	6.8	4.8	8.1	7.3	24
<u>NORTH PLATTE - CROW CREEK</u>									
Pole Mountain #2 $\div$	5H1	8700	3/29	24	5.8	1.3	6.0	5.8*	24



## WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1961

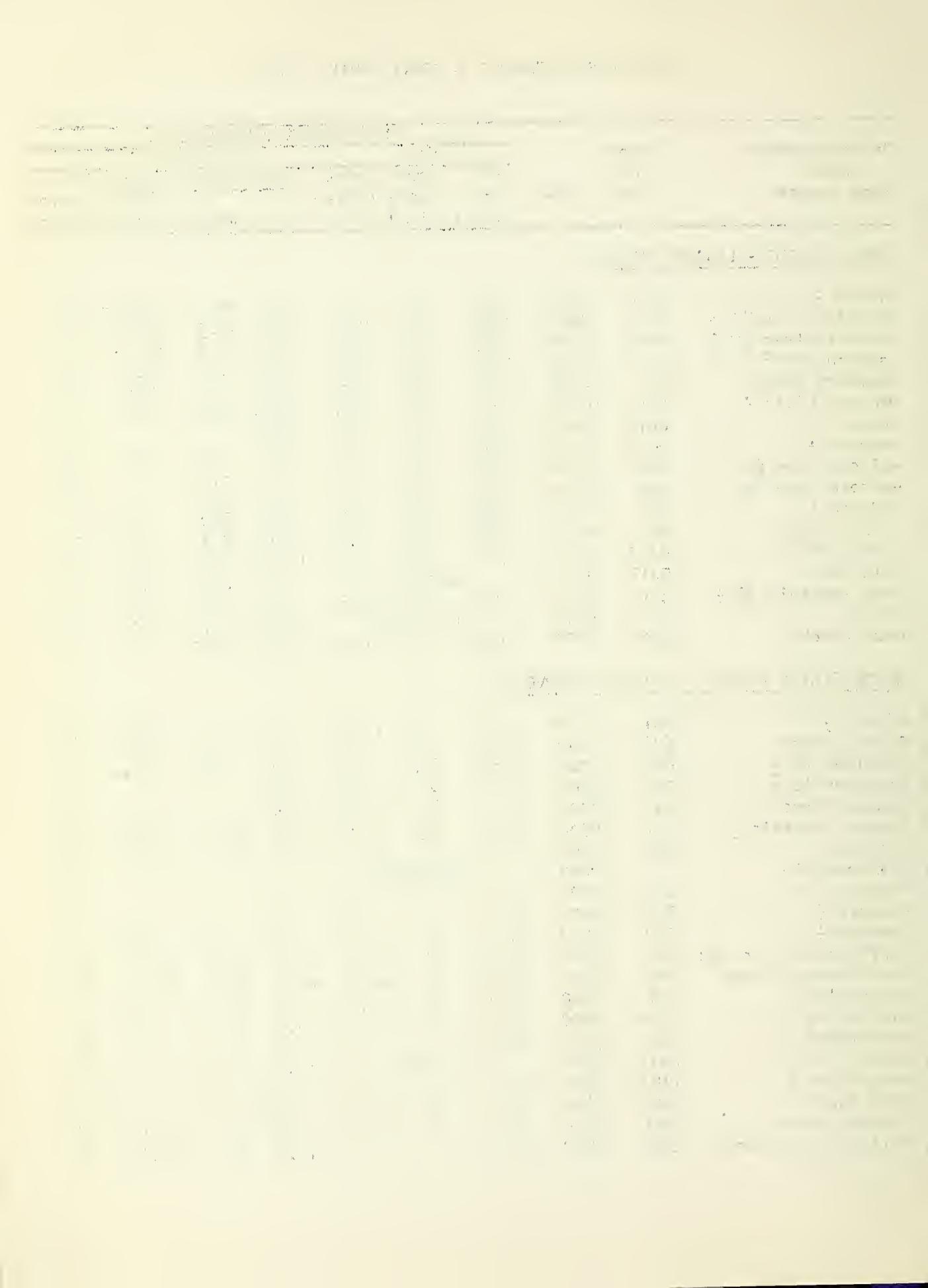
Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			1961			PAST RECORD			
			Date of Survey	Snow Depth (in.)	Water Content (in.)	Water Content (in.)	1960	1959	Prior 1943-57 Yrs. of Average Record

## NORTH PLATTE - LARAMIE RIVER

Albany $\frac{1}{2}$	6H11	9400	4/3	44	11.2	11.5	16.1	14.6**	12
Brooklyn Lake #1 $\frac{1}{2}$	6H1	10200	3/28	70	21.1	20.3	24.3	25.0	25
Brooklyn Lake #2 $\frac{1}{2}$	6H13	10200	3/28	70	19.5	17.8	24.3	24.0**	5
Cameron Pass <sup>c</sup> $\frac{1}{2}$	5J1	10300	4/1	79	22.3	29.2	30.9	24.9	25
Chambers Lake <sup>c</sup>	5J2	9000	4/2	27	6.7	10.3	14.6	8.8	25
Deadman Hill <sup>c</sup> $\frac{1}{2}$	5J6	10300	3/30	55	15.4	18.5E	16.2	16.8	24
Evans $\frac{1}{2}$	6H15	9000	4/2	41	7.8	9.9			1
Foxpark $\frac{1}{2}$	6H12	9200	3/29	27	4.8	6.1	6.9	7.4	25
Hairpin Turn #2	6H2	9500	3/28	39	10.1	7.7	13.9	12.9	25
Hairpin Turn #3	6H2	9500	3/28	47	12.7	11.9	17.8		2
LaBonte $\frac{1}{2}$	5G2	8450	3/29	26	6.3	2.5	8.0	7.0**	11
Libby Lodge	6H3	8700	3/28	35	9.1	7.0	12.3	11.5	25
Lost Lake <sup>c</sup> $\frac{1}{2}$	5J23	9300	4/2	36	8.5	11.6	16.9	13.1**	10
McIntyre <sup>c</sup>	5J15	9100		NO REPORT		8.6	12.0	11.8**	11
Pole Mountain #2 $\frac{1}{2}$	5H1	8700	3/29	24	5.8	1.3	6.0	5.8*	24
Roach <sup>c</sup>	6J12	9800		NO REPORT		18.9	17.1	20.0	21
Rock Creek $\frac{1}{2}$	6H14	9800	3/30	71	21.0E	23.5E	34.5E		2

## NORTH PLATTE - ABOVE SEMINOE RESERVOIR

Albany $\frac{1}{2}$	6H11	9400	4/3	44	11.2	11.5	16.1	14.6**	12
Bottle Creek	6H8	8200	3/31	33	9.3	9.9	14.2	15.4	25
Boxelder #1 $\frac{1}{2}$	5G1	9000	3/30	30	6.8	6.6	9.6	7.2**	11
Boxelder #2 $\frac{1}{2}$	5G1	9000	3/30	35	7.0	6.8			3
Cameron Pass <sup>c</sup> $\frac{1}{2}$	5J1	10300	4/1	79	22.3	29.2	30.9	21.9	25
Casper Mountain $\frac{1}{2}$	6G1	8700	3/29	62	15.3	12.5	13.4	12.6**	5
Columbine <sup>c</sup>	6J3	9300	3/30	61	17.2	21.5	27.9	24.7	25
Elk Mountain		10000		ABANDONED					
Evans $\frac{1}{2}$	6H15	9000	4/2	41	7.8	9.9			1
Foxpark $\frac{1}{2}$	6H12	9200	3/29	27	4.8	6.1	6.9	7.4	25
LaBonte $\frac{1}{2}$	5G2	8450	3/29	26	6.3	2.5	8.0	7.0**	11
North Barrett Cr. #2	6H5	9400	3/30	54	16.5	17.5	20.4	20.0	25
North French Creek	6H4	10200	3/30	74	24.8	28.2	35.5	30.5	23
Northgate <sup>c</sup>	6J7	8500	3/31	20	4.4	7.3	6.7	6.6**	11
Old Battle $\frac{1}{2}$	6H10	9800	3/31	73	23.7	27.8	27.0	33.3	25
Park View <sup>c</sup>	6J2	9200	3/28	31	7.8	9.8	9.3	9.7	25
Roach <sup>c</sup>	6J12	9800		NO REPORT		18.9	17.1	20.0	21
Rock Creek $\frac{1}{2}$	6H14	9800	3/30	71	21.0E	23.5E	34.5E		2
Ryan Park	6H6	8400	3/30	36	10.2	7.2	11.7	11.6	25
Webber Spring	6H9	9000	3/31	40	11.9	12.8	16.5	20.0	25
Willow Creek Pass <sup>c</sup>	6J5	9500	3/28	38	9.8	14.4	12.4	13.6	23



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Drainage Basin and Snow Course	Number or State Elev.	SNOW COVER MEASUREMENTS								
		1961			PAST RECORD					
		Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1960	1959	1943-57	Yrs.of Average	Prior Record
<u>NORTH PLATTE - SWEETWATER</u>										
Grannier Meadows $\div$	8G4	9000	3/24	37	8.4	11.1	10.0	16.1	24	
Larsen Creek	9G6	9000	3/29	30	8.9	6.5	9.2	11.1**	10	
South Pass $\div$	8G3	9000	3/24	40	8.7	10.2	11.6	16.4	21	
<u>NORTH LARAMIE MOUNTAINS</u>										
Boxelder #1 $\div$	5G1	9000	3/30	30	6.8	6.6	9.6	7.2**	11	
Boxelder #2 $\div$	5G1	9000	3/30	35	7.0	6.8			3	
Casper Mountain $\div$	6G1	8700	3/29	62	15.3	12.5	13.4	12.6**	5	
LaBonte $\div$	5G2	8450	3/29	26	6.3	2.5	8.0	7.0**	11	
<u>UPPER COLORADO - GREEN RIVER</u>										
Big Park $\div$	10G11	8700	4/1	45	14.1	15.8	18.2	21.2**	10	
Big Sandy Opening	9G9	9200	3/30	35	11.0				0	
Blind Bull Summit $\div$	10G2	8750	3/29	66	21.0E	20.0E	30.0E	31.9**	10	
Dinwoodie Glaciers $\div$	9F17	10500		NO REPORT		8.0E	11.5E		2	
Dutch Joe R.S.	9G5	8700	3/30	23	7.8	5.5	7.6	8.4*	20	
East Rim Divide $\div$	10F17	7950	3/27	24	6.5	7.6	10.3	12.4	25	
Elk Heart Park G.S.	9G8	9300	3/28	40	10.6				0	
Elk River <sup>c</sup>	6J4	8700	3/29	45	12.8	14.5	18.6	18.2	25	
Gros Ventre $\div$	10F19	8750	3/31	37	9.8	8.9	13.7	12.7**	13	
Hewinta R.S. <sup>u</sup>	10J4	9500	3/24	30	7.6	8.8	13.7	10.5	27	
Hole-in-the-rock <sup>u</sup>	10J1	9150		NO REPORT		4.8	7.7	6.5	30	
Hole-in-the-rock G.S. <sup>u</sup>	10J3	8300		NO REPORT		1.2	2.0	1.6**	7	
Kelly R.S. $\div$	10G12	8200	3/31	38	11.4	15.0	16.0	18.8**	10	
Kendall R.S. #1	10F15	7900	3/31	23	7.3	7.6	9.9	11.9	24	
Kendall R.S. #2	10F15	7900	3/31	28	8.7	9.0			1	
Loomis Park #1 $\div$	10F16	8500	3/27	40	10.8	12.8	17.2	19.4	24	
Loomis Park #2 $\div$	10F16	8500	3/27	40	11.4	13.8			1	
Middle Beaver <sup>u</sup>	10J2	8550		NO REPORT		4.2	7.4	5.6**	7	
Mulligan Park $\div$	9G1	8900	3/28	28	7.7	6.7	9.2	11.5	25	
North Horse Creek	10G16		3/30	45	15.1				0	
Old Battle $\div$	6H10	9800	3/31	73	23.7	27.8	27.0	33.3	25	
Piney LaBarge #1	10G10	8820	3/27	40	11.6	13.6	18.7	20.5	24	
Piney LaBarge #2	10G10	8820	3/27	46	14.8	16.1	21.5		2	
Poison Meadows $\div$	10G6	8500	3/27	68	21.4	23.3	27.3	30.4**	13	
Snyder Basin #2	10G13	8040	3/27	32	8.4	11.5	15.8	16.1**	6	
Soda Lake $\div$	10G14	8300	3/29	40	12.9	12.9	18.1	18.8**	5	
Triple Peaks	10G15	8500	3/29	56	19.3	19.2	27.8	29.5**	5	



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Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						
			Date of Survey	1961		PAST RECORD			Prior 1943-57 Yrs. of Average Record
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1960	1959	
<u>SNAKE RIVER - ABOVE JACKSON LAKE</u>									
Arizona	10F1	6850	3/28	47	15.3	13.9	17.8	19.6e	12
Astor Creek	10E8	7700	3/28	79	25.9	16.6	27.5	36.2e	12
Base Camp	10F2	6900	3/29	38	12.3	13.5	17.7	20.2e	10
Coulter Creek	10E10	7600	3/27	59	19.1	15.5	20.8	25.4e	11
Glade Creek	10E13	7200	3/28	60	18.3	15.0	20.3	24.8e	12
Grassy Lake	10E15	7265	3/28	81	28.6	25.2	33.6	36.7	21
Huckleberry Divide	10E14	7300	3/28	50	15.2	13.7	18.5	21.3e	12
Lewis Lake Divide	10E9	7900	3/28	102	36.1	27.1	42.7	47.5e	12
Moran	10F4	6500	3/29	26	7.5	10.3	11.0	12.5e	12
Moran Bay	10F3	6800	3/29	49	16.5	N.R.	21.3	23.5e	12
Snake River Station	10E12	6780	3/28	57	17.9	14.2	19.8	22.4e	10
Thumb Divide $\div$	10E7	7900	3/28	58	16.1	11.8	19.8	25.8e	10
<u>JACKSON LAKE TO PALISADES</u>									
Afton R.S.	10G4	6200	4/1	0	0.0	0.0	0.0	2.4*	24
Base Camp $\div$	10F2	6900	3/29	38	12.3	13.5	17.7	20.2e	10
Blackrock	10F7	8600	3/29	57	17.1	17.4	24.3	24.3	25
Blind Bull Summit $\div$	10G2	8750	3/29	66	21.0E	20.0E	30.0E	31.9**	10
Bryan Flat	10F14	6250	3/27	21	5.9	5.4	9.4	11.2	25
CCC Camp	10G7	7500	3/27	30	6.9	9.6	10.7	12.3	25
Cottonwood Lake	10G5	7500	3/29	44	11.5E	13.5E	14.0E	17.0*	21
Deadman Ranch	10G1	6534	3/29	33	8.5E	11.5E	12.0E	11.3*	20
East Rim Divide $\div$	10F17	7950	3/27	24	6.5	7.6	10.3	12.4	25
Four Mile Meadows	10F6	7770	3/29	44	11.4	9.6	13.6	14.3	25
Greys Boundary	10E18	5800	3/27	25	7.5	10.5	11.9	11.9	24
Gros Ventre $\div$	10F19	8750	3/31	37	9.8	8.9	13.7	12.7**	13
Grover Park Divide	10G3	7500	3/28	29	7.5	11.3	10.2	11.9	25
Loomis Park #1 $\div$	10F16	8500	3/27	40	10.8	12.8	17.2	19.4	24
Loomis Park #2 $\div$	10F16	8500	3/27	40	11.4	13.8			1
Poison Meadows $\div$	10G6	8500	3/27	68	21.4	23.3	27.3	30.4**	13
Salt River Summit $\div$	10G8	7900	3/27	36	10.0	12.3	14.3	16.2**	13
Snow King Mtn. #2	10F12	7200			ABANDONED				
Snow King Mtn. #3	10F20	7600	3/26	38	10.9	12.5	14.1		2
Teton Pass #2	10F13	8500	3/31	75	25.7	28.1	36.9	39.1*	16
Togwotee Pass $\div$	10F9	9600	3/29	71	24.0	24.6	32.2	32.1	25
Turpin Meadows	10F5	6930	3/29	28	8.4	6.8	11.1	11.6	25
Yellowjacket	10F10	7675	4/1	10	3.8	N.R.	7.0	6.5	24



WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1961

Drainage Basin and Snow Course	Number or State	Elev.	SNOW COVER MEASUREMENTS						Prior 1943-57 Yrs. of Survey	1960	1959	Average Record
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	PAST RECORD					

BEAR RIVER

Big Park $\div$	10G11	8700	4/1	45	11.0	15.8	18.2	21.2**	10
CCC Camp	10G7	7500	3/27	30	6.9	9.6	10.7	12.3	25
Goodman Ranch <sup>u</sup>	10J6	7900	3/25	13	4.4	3.4	8.2	6.1	23
Hayden Fork <sup>u</sup>	10J7	9300	3/23	30	8.9	N.R.	15.9	18.3**	9
Kelly R.S. $\div$	10G12	8200	3/31	38	11.4	15.0	16.0	18.8**	10
Monte Cristo <sup>u</sup>	11H12	8960	3/28	57	17.9	19.9	20.0	27.9	28
Poison Meadows $\div$	10G6	8500	3/27	68	21.4	23.3	27.3	30.4**	13
Salt River Summit $\div$	10G8	7900	3/27	36	10.0	12.3	14.3	16.2**	13
Still Water Camp <sup>u</sup>	10J17	9800	3/23	26	7.3	8.8	14.1	11.9**	6
Trial Lake <sup>u</sup>	10J8	9800	3/31	59	16.0	21.7	23.7	29.1	30

MISSOURI - CHEYENNE RIVER

Terry Peaks <sup>s</sup>	3E2	7000		NO REPORT		10.9			1
Upper Spearfish <sup>s</sup>	3E1	6500	3/31	14	3.7	6.0	8.9	7.0*	17

Averages are for the 15 year base period of 1943-57.

\* Average is for 15 years of data within and adjacent to the 1943-57 period.

\*\* Average of all past data.

c Colorado snow courses.

m Montana snow courses.

u Utah snow courses.

s South Dakota snow courses.

e 1943-57 average partially estimated.

$\div$  Located close to divide.

E Aerial stadia marker. Water content estimated from snow depth.

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## STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - APRIL 1, 1961

BASIN and/or STREAM	Reservoir	Usable Capacity 1000's AF				15-Yr. Avg. 1943-57
			1961	1960	1959	
Snake River	Jackson	847.0	133.9	478.4	485.8	465.5
Snake River	Palisades	1202.0	637.0	876.0	724.0	
North Platte	Seminoe	981.8	63.3	252.4	597.2	428.4
North Platte	Pathfinder	1011.0	251.7	277.4	186.4	631.4
North Platte	Alcova**	30.3	12.3	28.0	27.1	
North Platte	Glendo	786.3	278.4	380.4	407.0	
North Platte	Guernsey	39.8	19.2	32.5	8.3	28.5
North Platte	Sutherland	70.0	N.R.	70.0	46.6	51.1
North Platte	Kingsley	1900.0	N.R.	1488.4	1510.0	1182.4
North Platte	Minatare	60.8	19.4	35.1	42.0	23.8
Kansas Basin	Bonny	39.9	N.R.	39.9	39.9	
Kansas Basin	Swanson Lake	1116.1	N.R.	116.1	116.1	
Kansas Basin	Enders	36.0	N.R.	36.0	36.0	
Kansas Basin	Harry Strunk	33.9	N.R.	33.9	33.9	
Kansas Basin	Harlan County	252.9	N.R.	252.9	252.9	
Kansas Basin	Cedar Bluff	176.8	N.R.	176.8	176.8	
Kansas Basin	Lovewell	37.3	N.R.	37.3	36.0	
Kansas Basin	Webster	64.9	N.R.	64.9	64.9	
Kansas Basin	Kirwin	88.8	N.R.	88.8	84.1	
Kansas Basin	Kanopolis	48.1	N.R.	48.1	48.1	
Laramie River	Wheatland	95.0	15.5	34.2	35.3	
Belle Fourche	Belle Fourche	185.2	37.6	60.9	58.2	116.9
Belle Fourche	Keyhole	190.3	2.7	14.8	4.7	11.7*
Shoshone River	Buffalo Bill***	380.3	135.2	128.0	13.6	220.6
Wind River	Boysen	560.0	106.3	139.6	100.1	426.7*
Wind River	Pilot Butte	31.6	24.7	26.0	12.1	18.2
Wind River	Bull Lake	152.0	58.3	36.6	45.5	60.1
Cheyenne River	Angostura	92.0	6.5	28.8	50.6	47.2*
Cheyenne River	Deerfield	15.1	2.8	1.7	9.3	13.3*
Rapid Creek	Pactola	55.0	16.4	25.4	19.4	
Grand River	Shadehill	84.0	51.3	82.4	86.0	81.1*
Green River	Big Sandy	38.3	5.5	4.5	5.1	

\* Average is for less than 15 years of record in the 1943-57 period.

\*\* Alcova downstream from Seminoe and Pathfinder and containing 160,170 acre feet of active storage that is unavailable to the Kendrick Project.

\*\*\* Usable capacity 439,800, however, 59,500 acre feet are inactive except in an emergency.



TO: The Soil and Water Conservation District Cooperator  
FROM: The District Board of Supervisors  
SUBJECT: April 1, 1961 Forecast of Seasonal Water Supply

The February 1 and March 1 reports discussed the mechanics of the snow pack and soil moisture beneath the pack. This article will be confined to the end result--seasonal runoff.

The Soil Conservation Service applies the term "Seasonal runoff" to the snow melt period of April 1 to September 30. This should not be confused with "Water year" (runoff from October 1 to September 30) nor with various kinds of "residual" forecasts.

The seasonal forecast is expressed in the number of acre feet of water that flows past a given point--the location of a stream gaging station. For comparative purposes, the snow melt runoff forecast is also given in terms of "percentage of normal." Normal, or 100 percent, is the average seasonal flow for the base period 1943 to 1957. For example: The anticipated snow pack yield for the North Platte at Saratoga is 340,000 acre feet of water. This is 51 percent of the fifteen year average of 661,000 acre feet. In some areas, there is yet an insufficient length of snow course records for accurate volume flow forecasts. Information is therefore expressed in the following terms: Poor-less than 80 percent of normal, Good-80 percent to 120 percent of normal, Excellent-above 120 percent of normal.



# Agencies Cooperating in Wyoming Snow Surveys

## FEDERAL

U. S. Department of Agriculture  
Forest Service  
Soil Conservation Service

U. S. Department of Commerce  
Weather Bureau

U. S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE

State Engineer of Wyoming

## PRIVATE

Wheatland Irrigation District  
Greybull Valley Irrigation District  
Clouds Peak Soil & Water Conservation District  
Cody Soil & Water Conservation District  
Dubois-Crowheart Soil & Water Conservation District  
Greybull Valley Soil & Water Conservation District  
Lake DeSmet Soil & Water Conservation District  
Laramie Rivers Soil & Water Conservation District  
Little Snake River Soil & Water Conservation District  
Medicine Bow Soil & Water Conservation District  
Pinedale Soil & Water Conservation District  
S & E Soil & Water Conservation District  
Shell Valley Soil & Water Conservation District  
Shoshone Soil & Water Conservation District  
Tongue River Soil & Water Conservation District  
Washakie Soil & Water Conservation District  
Wheatland Soil & Water Conservation District

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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CASPER, WYOMING

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COOPERATIVE SNOW SURVEYS

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necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

—  
“ *The Conservation of Water begins  
with the Snow Survey* ”